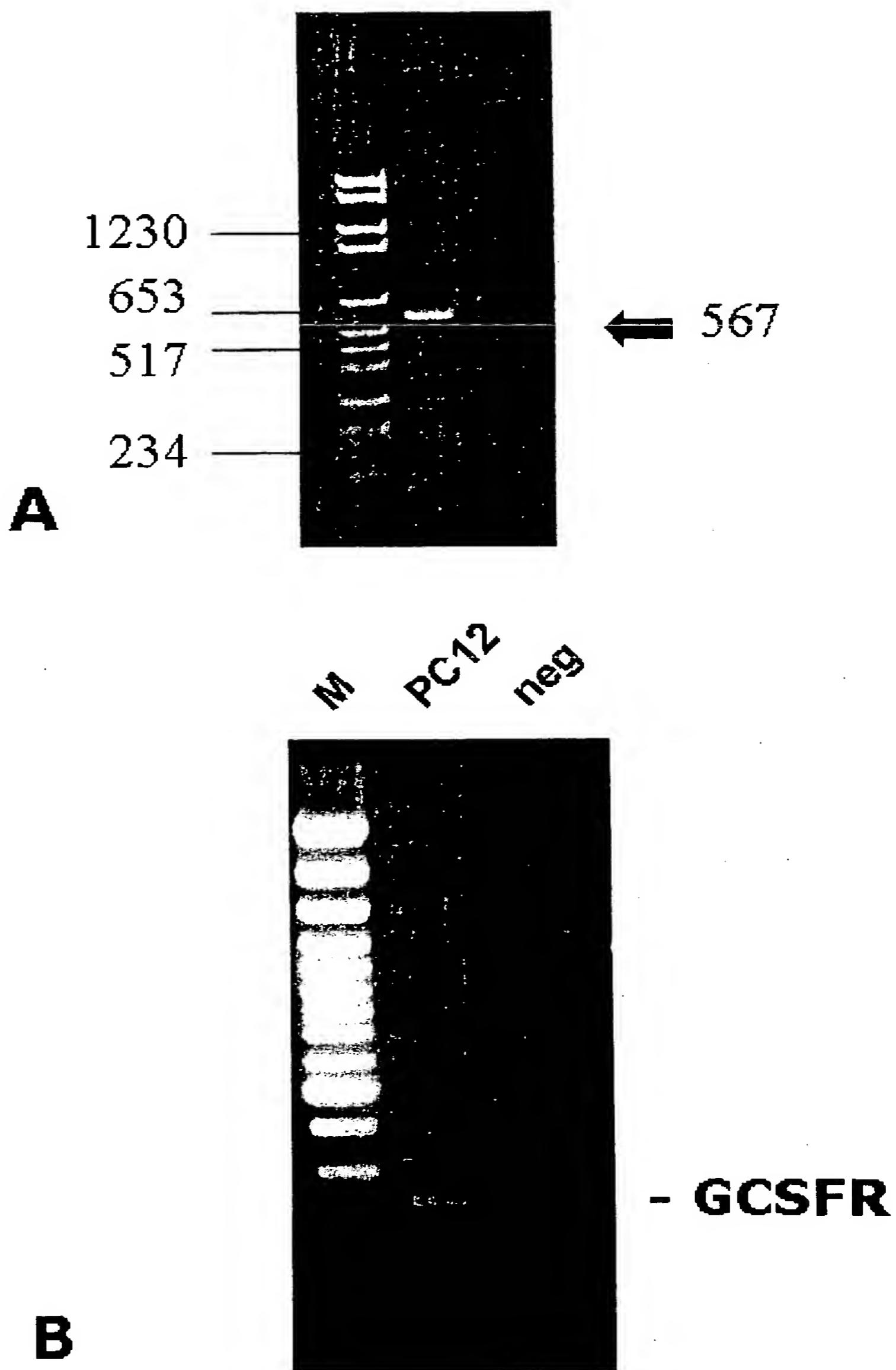
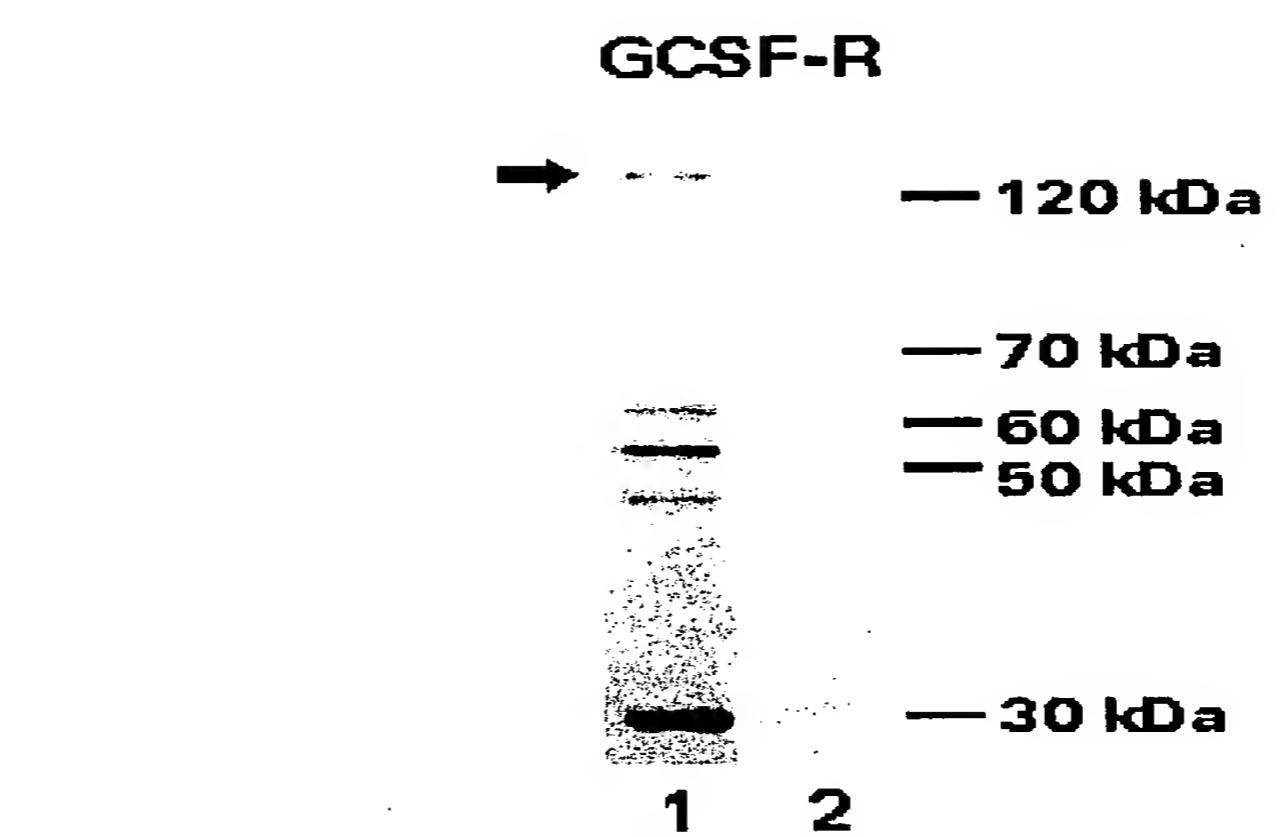


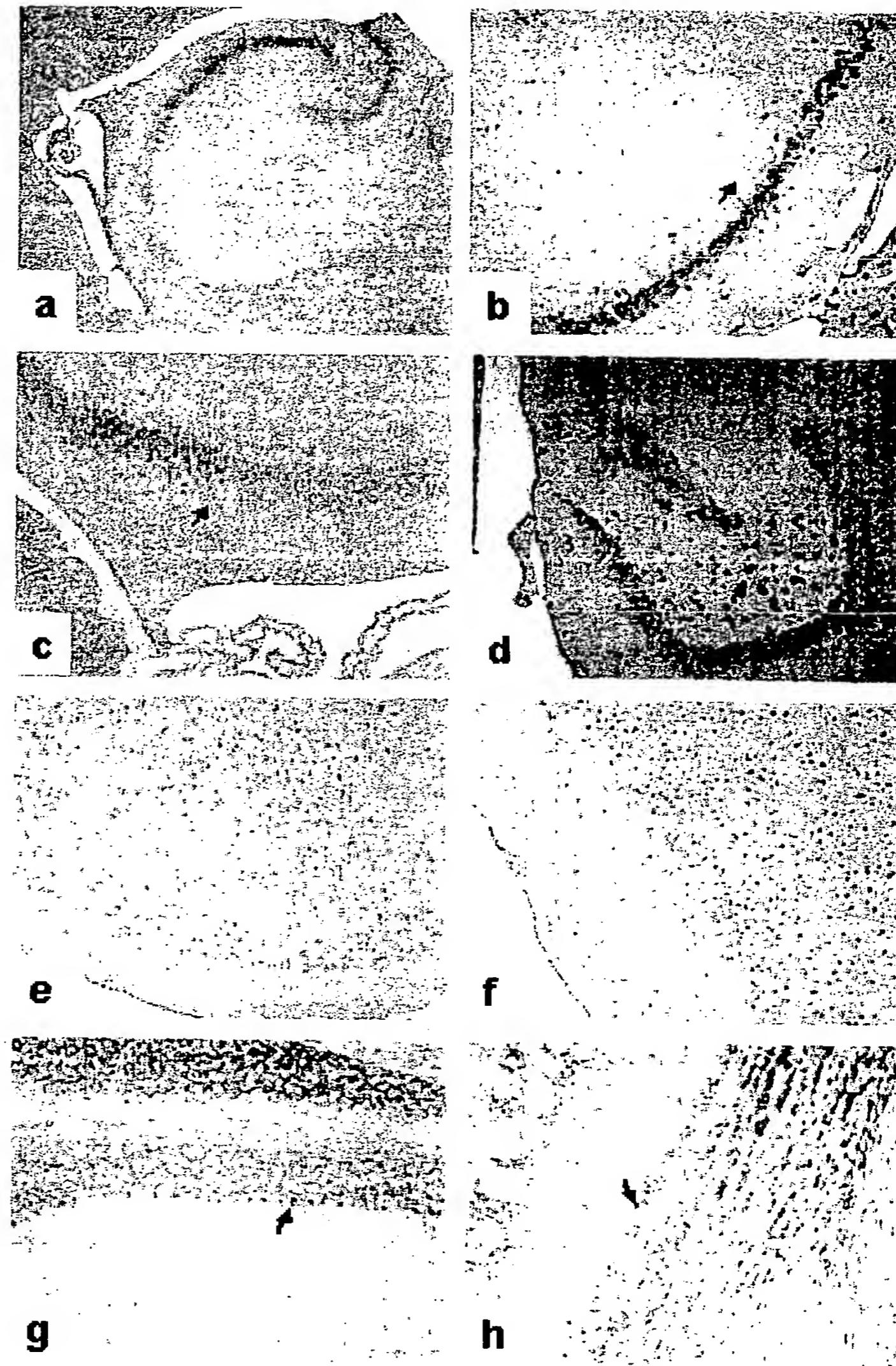
**Figure 1**



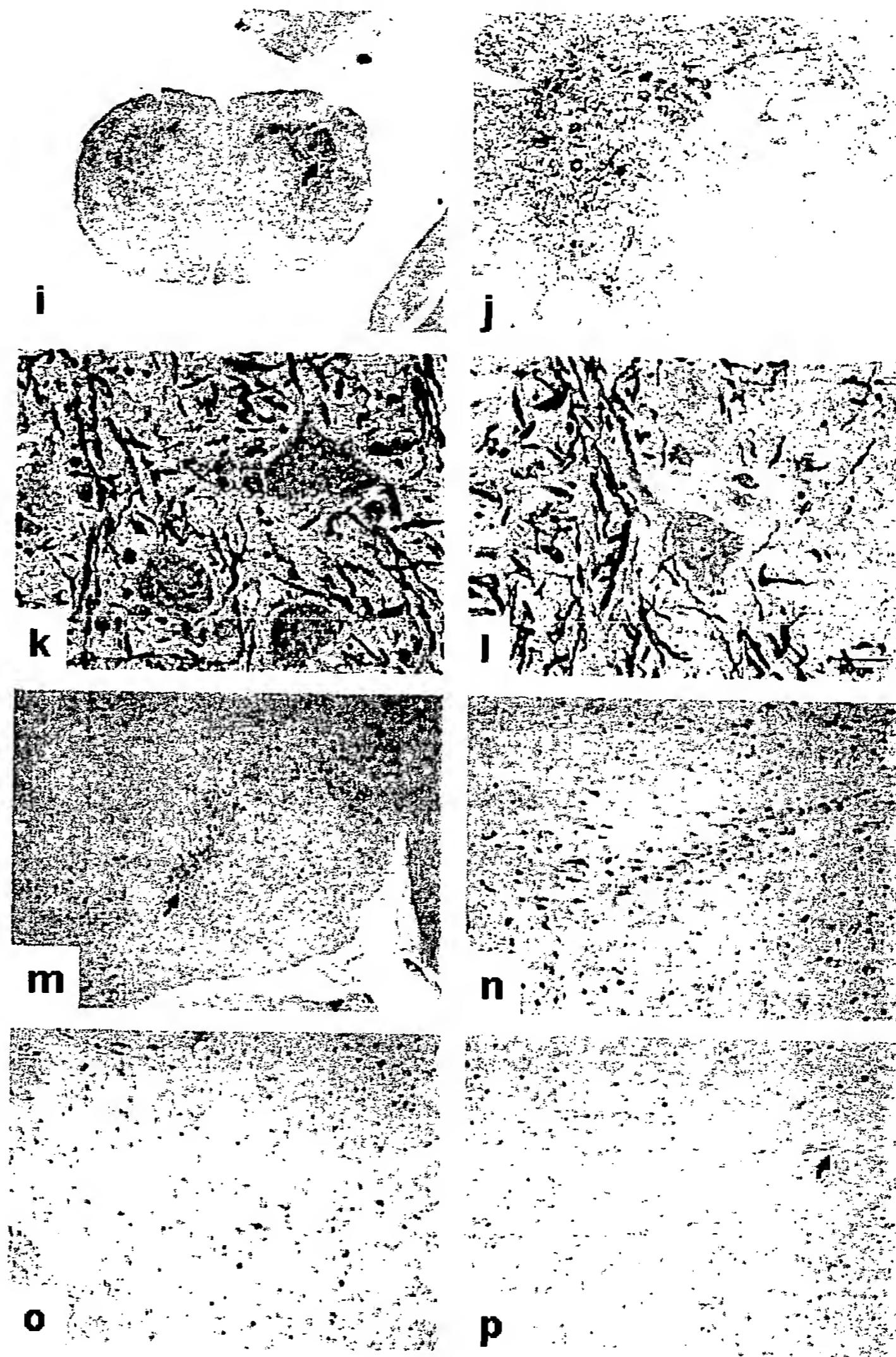
**Figure 2**



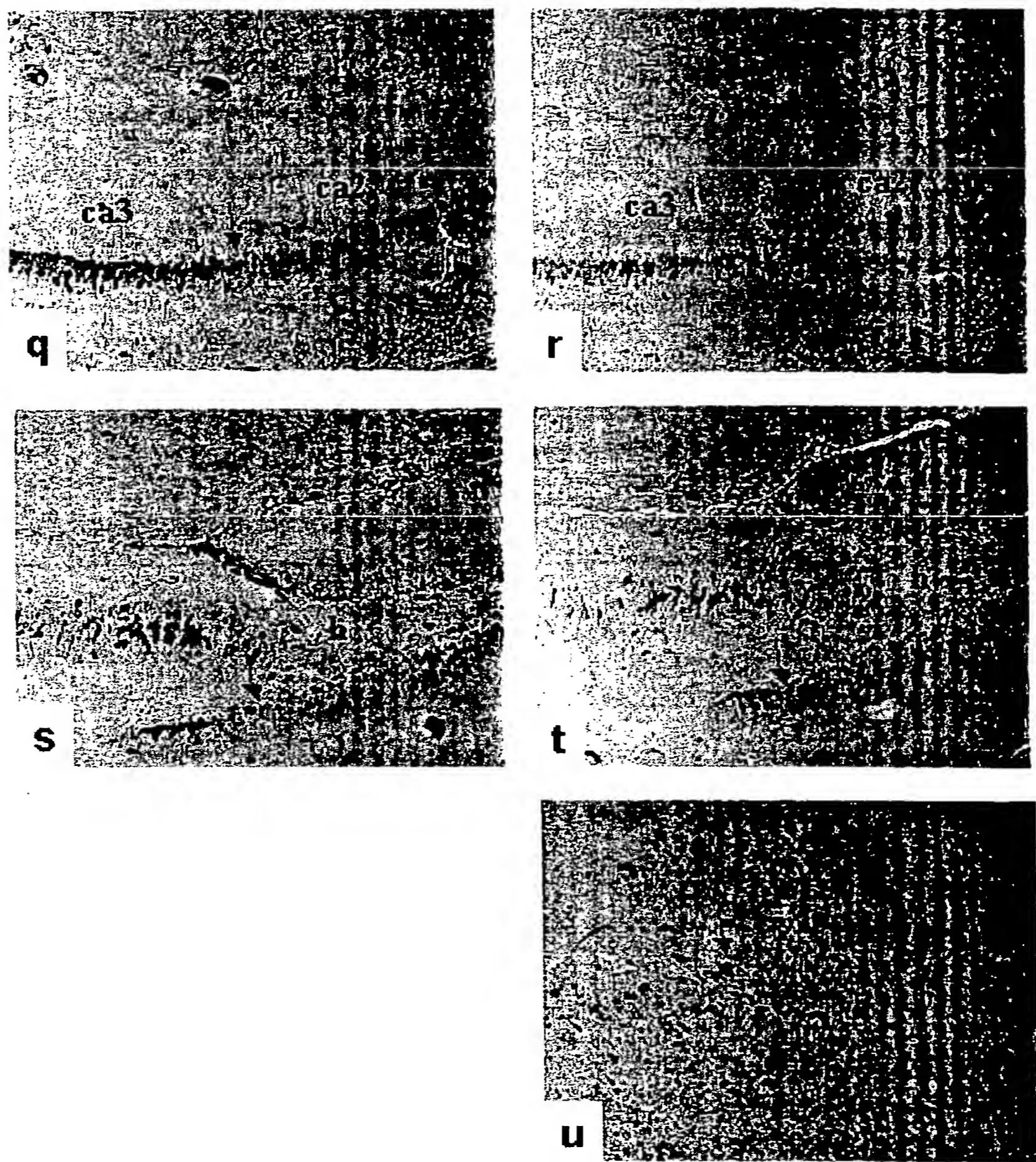
**Figure 3**



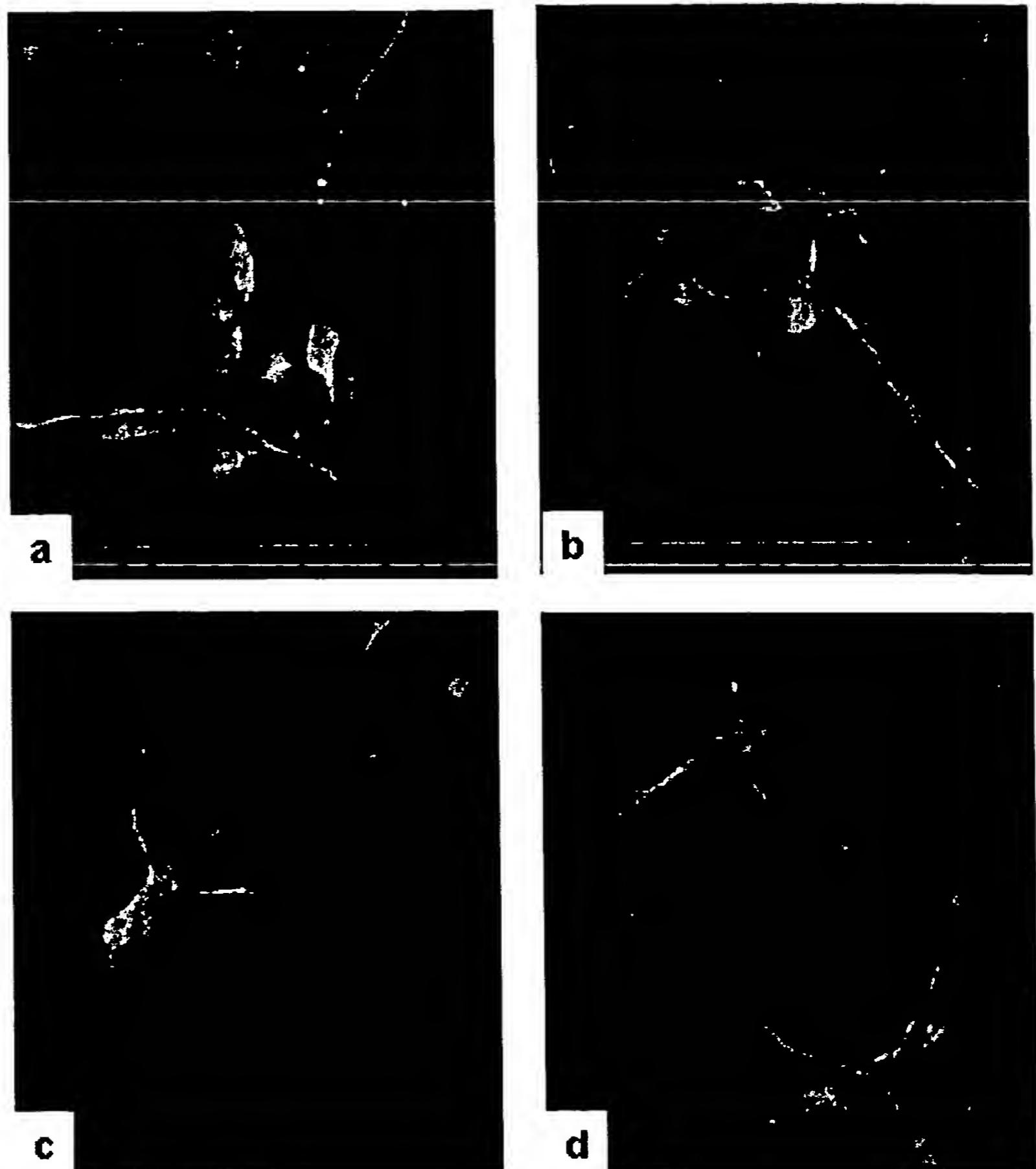
**Figure 4, part I**



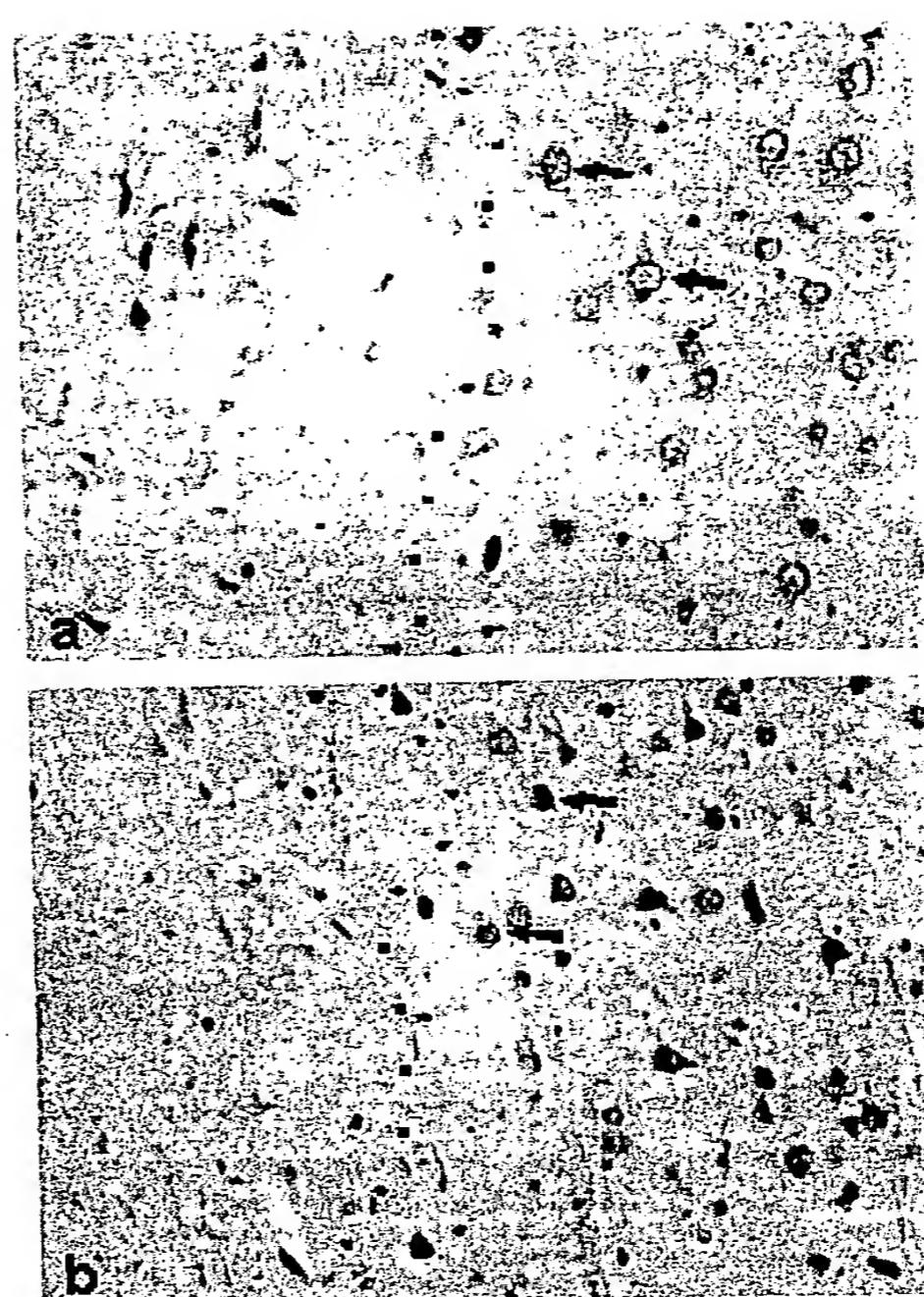
**Figure 4, part II**



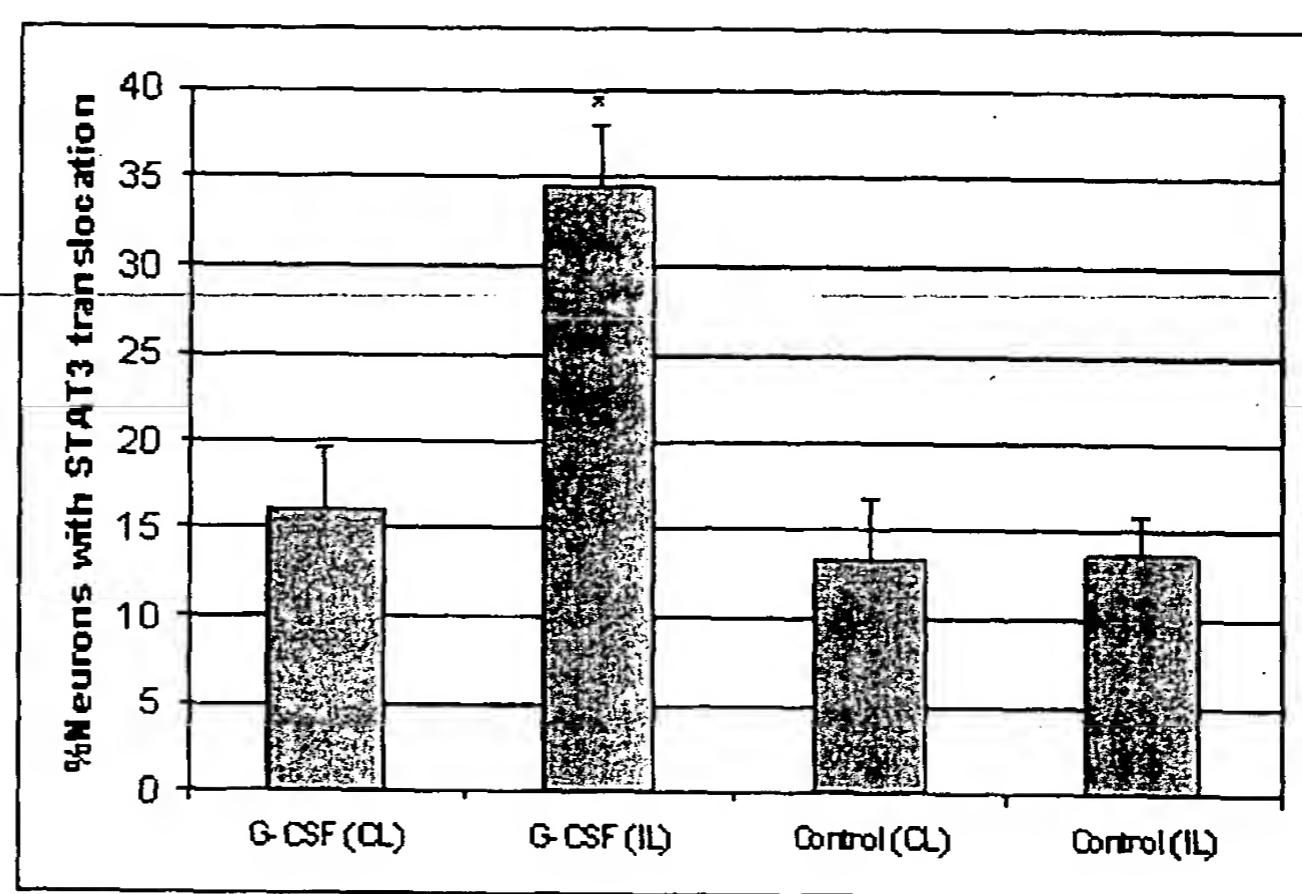
**Figure 4, part III**



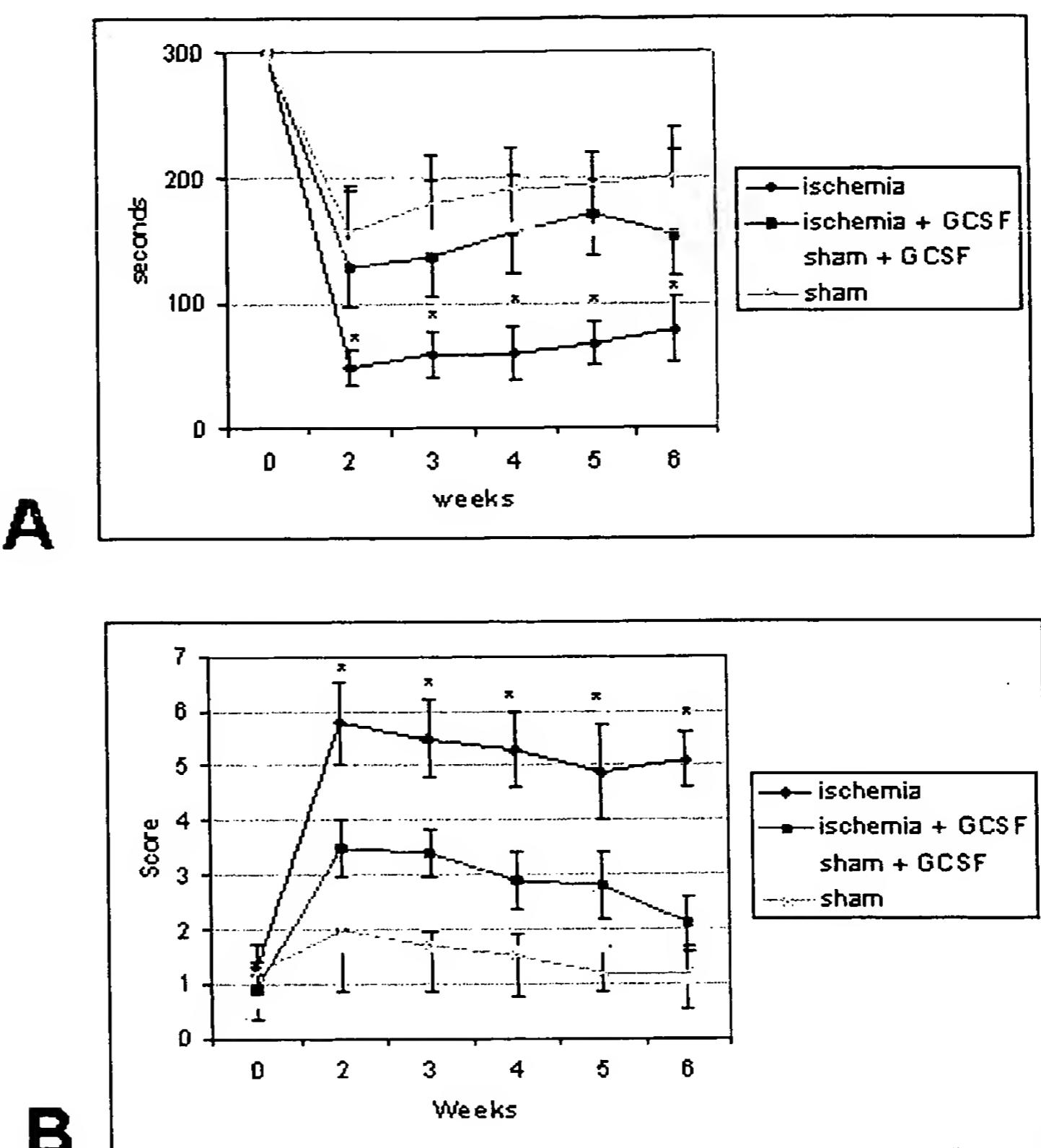
**Figure 5**



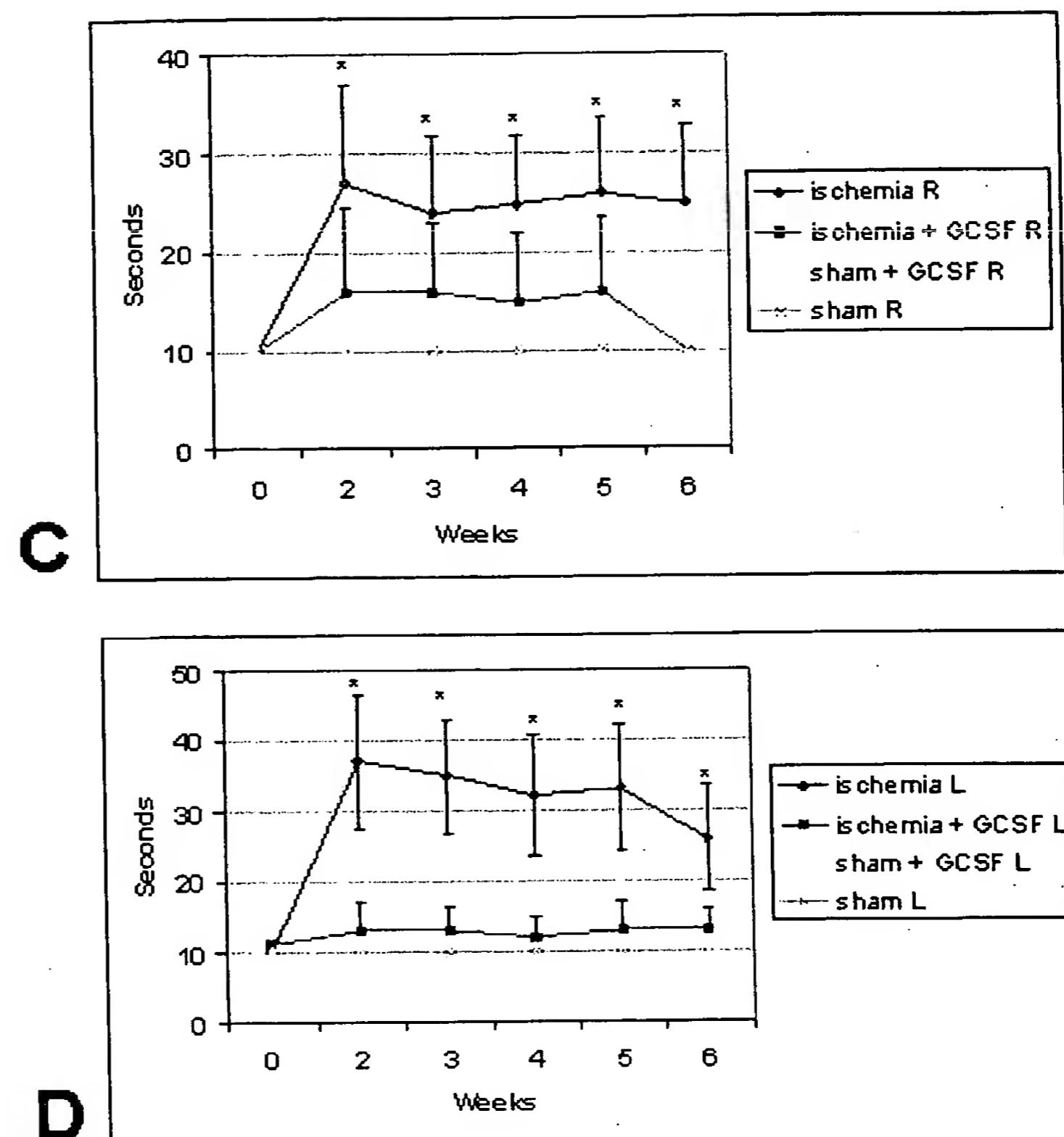
**Figure 6**



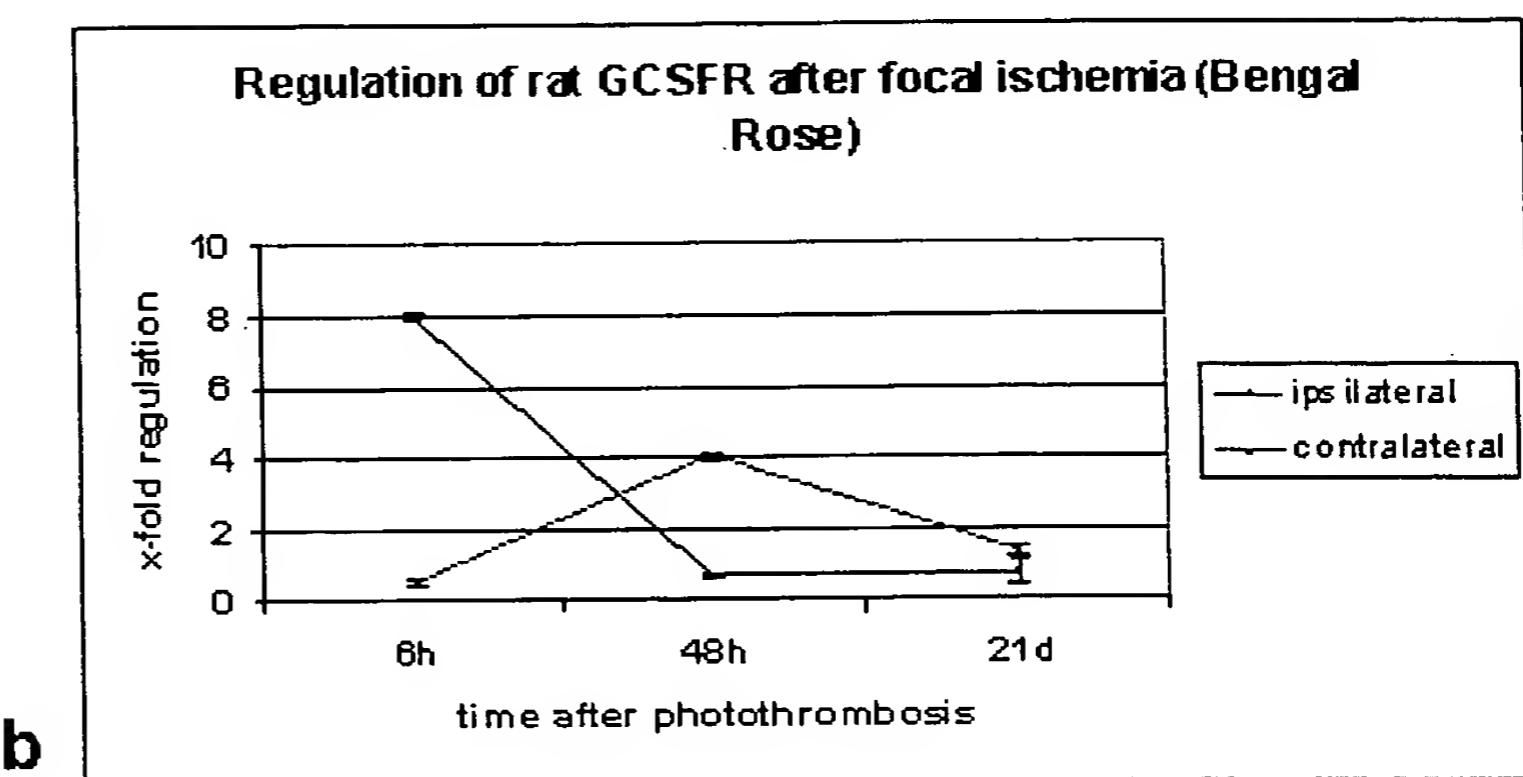
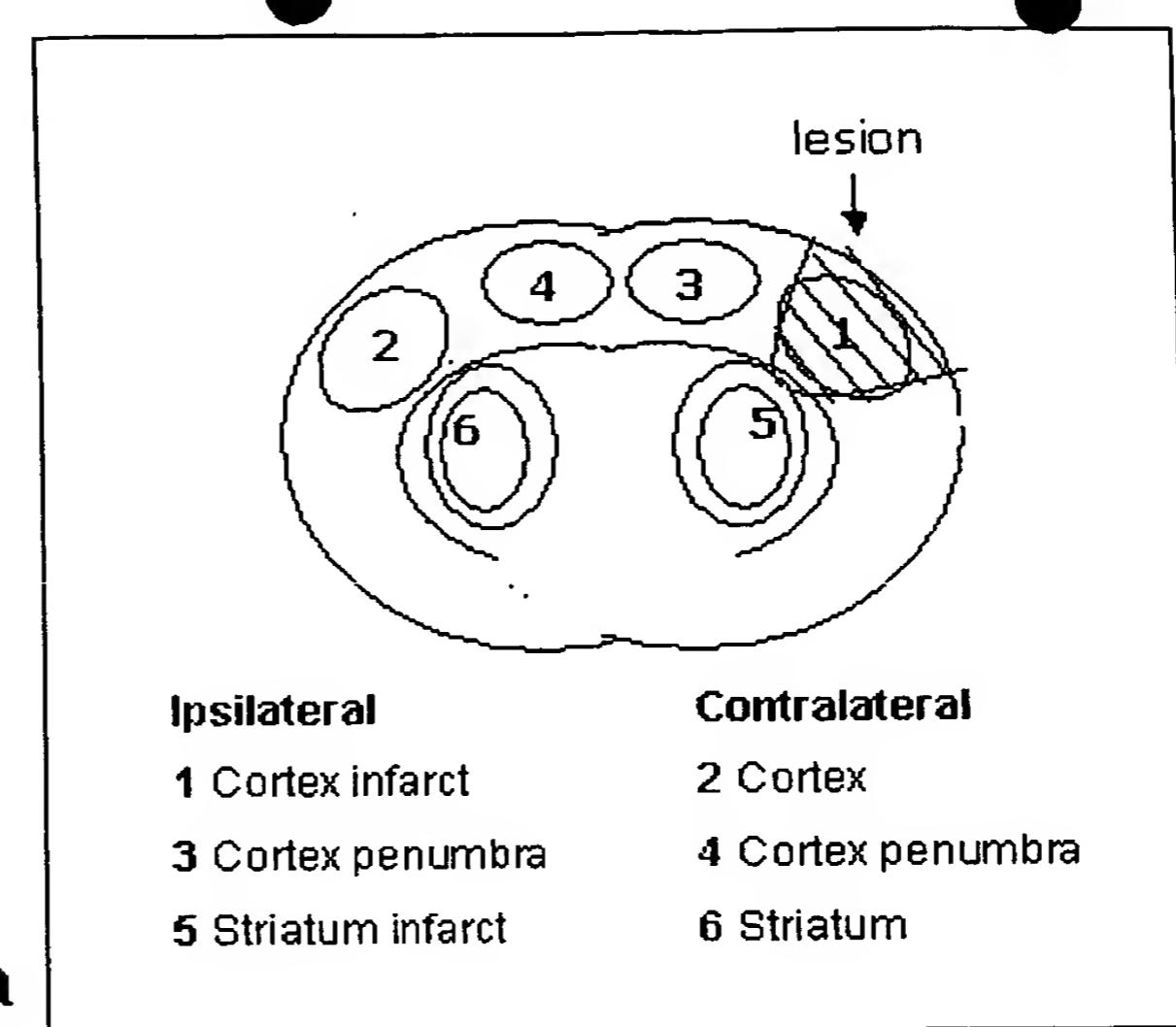
**Figure 7**



**Figure 8, part I**



**Figure 8, part II**



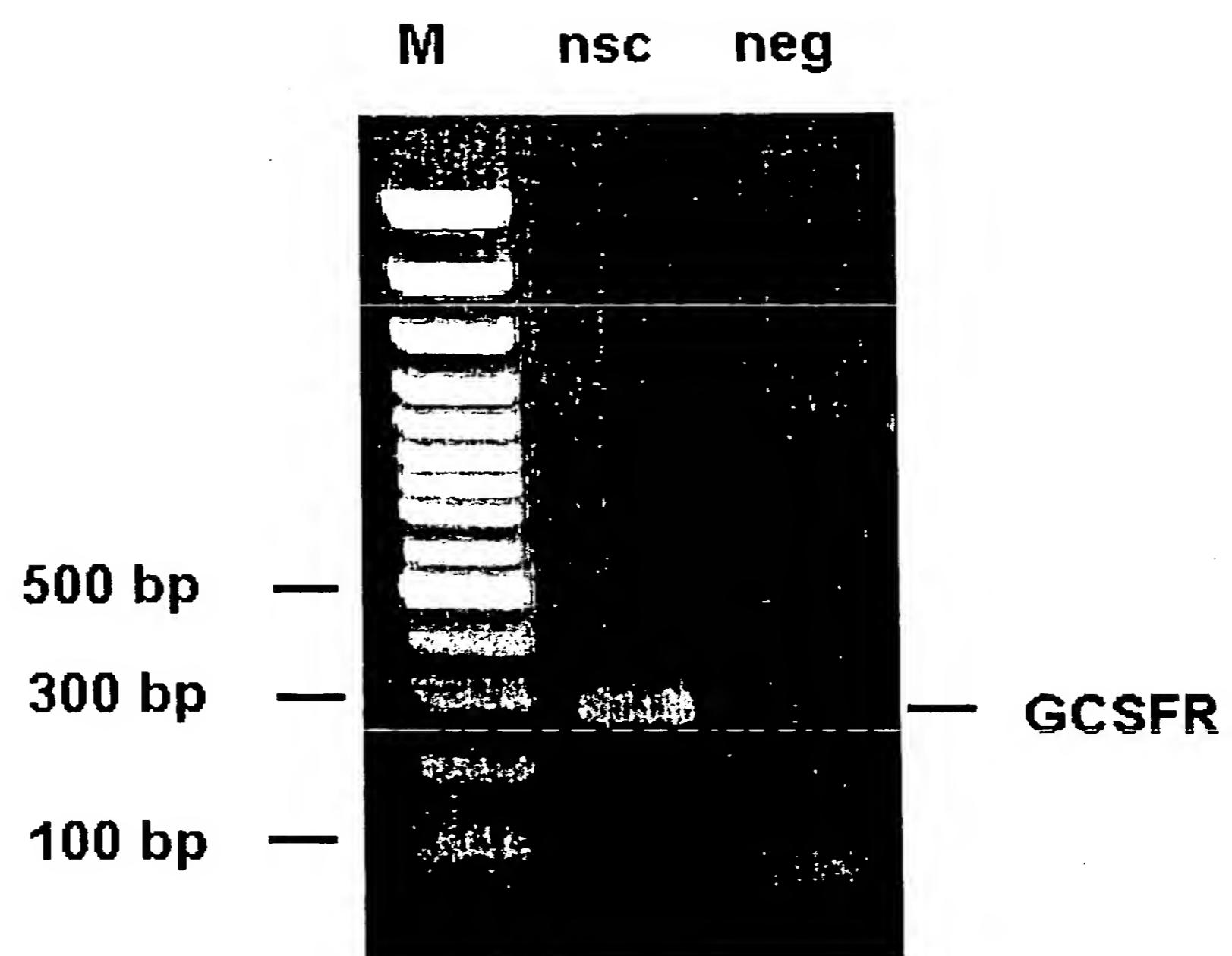
**Figure 9**

1 M A G P A T Q S P M X L M A L Q L L L W H S A L W T V Q E A hum G-CSF  
 1 M A Q L S A Q R R M K L M A L Q L L L W Q S A L W S G R E A mouse G-CS  
 1 - - - - - S M X L M A L Q L L L W R S A L W S G Q E A rat G-CSF  
 1 - - - - - X L M A L Q L L L W R S A L W S V Q E A feline G-C  
 1 - - - - - M X L M V L Q L L L W H S A L W T V H E A bovine G-C  
 1 - - - - - N X L M A L Q L L L W H I A L W H V P E A pig G-CSF  
  
 31 T P L G P A S S L P - - - - Q S F L L K U L E Q V R X I hum G-CSF  
 31 V P L V T V S S A L P P S L P L P R S F L L K S L E Q V R X I mouse G-CS  
 32 I P L L T V S S S L P P S L P L P R S F L L K S L E Q V R X I rat G-CSF  
 31 T P L G P T S S L P - - - - Q S F L L K U L E Q V R X V feline G-C  
 32 T P L G P A R S L P - - - - Q S F L L K U L E Q V R X I bovine G-C  
 32 A P L S P A S S L P - - - - Q S F L L K U L E Q V R X I pig G-CSF  
  
 55 Q G D G A A L Q E K L V S E C A T Y K L C H P E E L V L L G hum G-CSF  
 61 Q A S G S V L L E Q L - - - C A T Y K L C H P E E L V L L G mouse G-CS  
 52 Q A R N T E L L E Q L - - - C A T Y K L C H P E E L V L F G rat G-CSF  
 45 Q A D G T A L Q E R L - - - C A A H K L C H P E E L V L L G feline G-C  
 46 Q A D G A E L Q E R L - - - C A A H K L C H P E E L M L L R bovine G-C  
 46 Q A D G A E L Q E R L - - - C A T H K L C H P Q E L V L L G pig G-CSF  
  
 85 H S L G I P W A P L S S C P S S Q A L Q O L A G C L S Q L H S G hum G-CSF  
 88 H S L G I P K A S L S S G C S S Q A L Q O T Q C L S Q L H S G mouse G-CS  
 79 H S L G I P K A S L S S C S S S Q A L Q O T K C L S Q L H S G rat G-CSF  
 72 H A L G I P Q A P L S S C S S S Q A L Q O L T G C L R Q L H S G feline G-C  
 73 H S L G I P Q A P L S S C S S S Q A L Q O L T S C L E Q L H G G bovine G-C  
 73 H S L G I P Q A S L S S C S S S Q A L Q O L T G C L N Q L H G G pig G-CSF  
  
 115 L F L Y Q G L L Q A L E G I S P E L T P T L D T L Q L D V A hum G-CSF  
 118 L F L Y Q G L L Q A L S G I S P A L A P T L D L L Q L D V A mouse G-CS  
 109 L F L Y Q G L L Q A L A G I S S E L A P T L D M L H L D V D rat G-CSF  
 102 L F L Y Q G L L Q A L A G I S P E L A P T L D M L Q L D I T feline G-C  
 103 L F L Y Q G L L Q A L A G I S P E L A P T L D T L Q L D V T bovine G-C  
 103 L V L Y Q G L L Q A L A G I S P E L A P A L D I L Q L D V T pig G-CSF  
  
 145 D F A T T I W Q Q M E E L V M A P A L Q P T Q G A M P A F A hum G-CSF  
 146 N F A T T I W Q Q M E M L G V A P T V Q P T Q S A M P A F T mouse G-CS  
 139 N F A T T I W Q Q M E S L G V A P T V Q P T Q S T M P I F T rat G-CSF  
 132 D F A I N I W Q Q M E D V G M A P A U P P T Q G T M P T F T feline G-C  
 133 D F A T H I W L Q M E D L V A A P A V Q P T Q G A M P T F T bovine G-C  
 133 D L A T N I W L Q M E D L R M A P A S L P T Q G T V P T F T pig G-CSF  
  
 175 S A F Q R R A G G V L V A S H L Q S F L E V S Y R U L R H L hum G-CSF  
 178 S A F Q R R A G G V L V A I S Y L Q G F L E T A R L A L H H L mouse G-CS  
 169 S A F Q R R A G G V L V T J Y L Q S F L E T A H H A L H H L rat G-CSF  
 162 S A F Q R R A G G T L V A S H L Q S F L E V A Y R A L R H F feline G-C  
 163 S A F Q R R A G G V L V A S Q L H R F L E L A Y R G L R Y L bovine G-C  
 163 S A F Q R R A G G V L V V S Q L Q S F L E L A Y R V L R Y L pig G-CSF  
  
 205 A Q P hum G-CSF  
 208 A . mouse G-CS  
 199 P R P A Q X H F P E S L F I S I . rat G-CSF  
 192 T K P feline G-C  
 193 A E P bovine G-C  
 193 A E P pig G-CSF

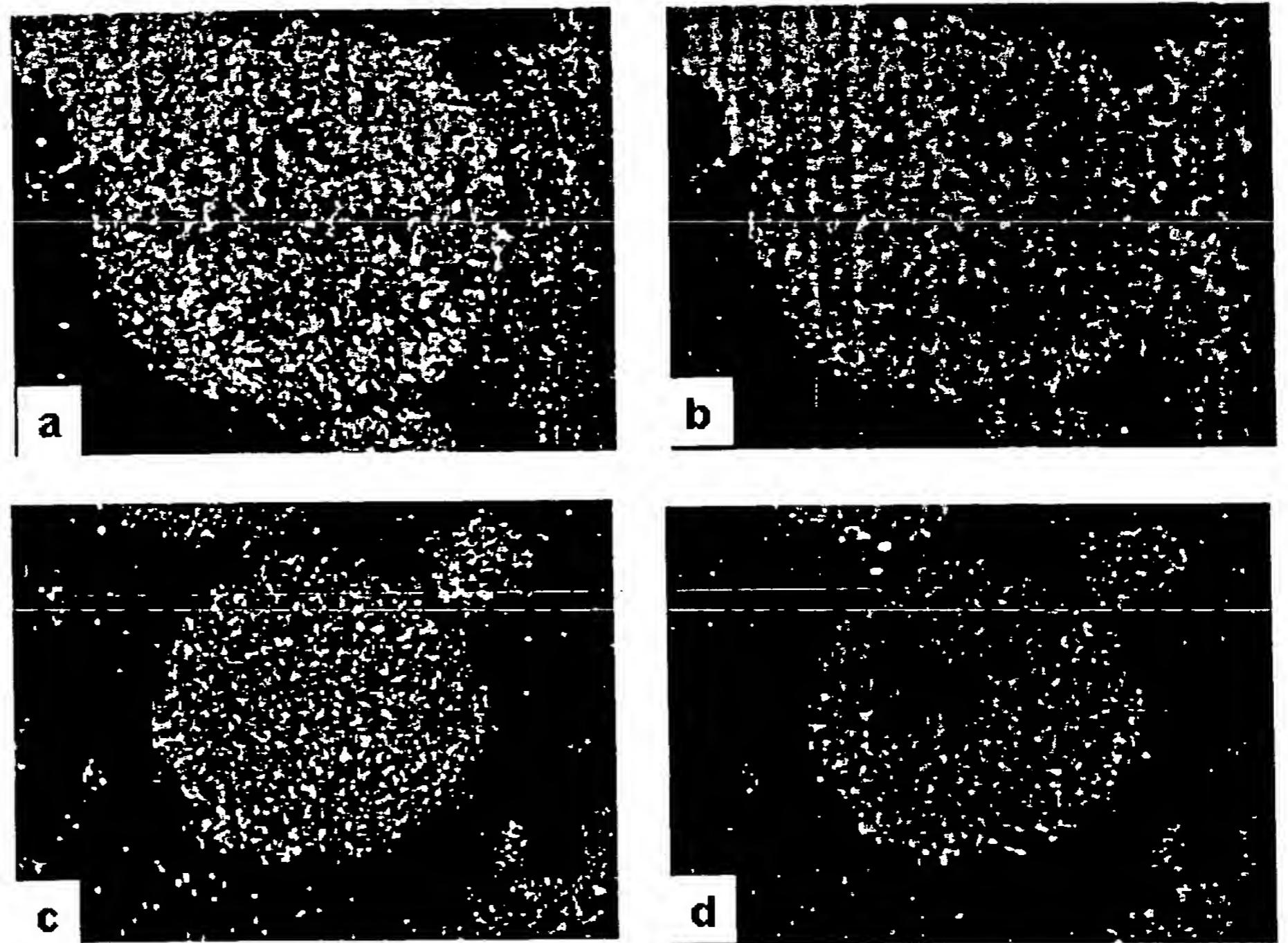
**Figure 10**

MARLG NCSLTWALI I LLLPGSLE ECGHI SVSAPIVHLGDPITASCI I KQNCSHLDPEPQ I gest  
 MVLGACTLTGVTL I FLLLPRSL ESCGGHI EISP PVRILGDPVLASCTI SPNC SKLDQQAK m gest  
 -----LEGCGQIRISPPIVHLGDPVLASCTI SPNC SKLDRQPK r gest (frag)  
  
 I LWRLGAE- LOPCG RQQLSDGTQESI I TLPHL NYTQAFLSCCLNNGNSLQI LDQVELRA I gest  
 I LWRLQDEPI QPGD RQHHL PDGTQESI I TLPHL NYTQAFLFCLVPMEDSVQL LDQAEELHA m gest  
 I LWRLQDEPNOPGD RQHHL PDGSQESI I TLPHL NYTQAFLFCLVPMUNNSFQVL DQAEEL RA r gest (frag)  
  
 GYPPAI PHNL SCL MNLTSSLI CQWE PGPE THL PTSFTL KSF KSRGN CQTOQDSI LD CVP I gest  
 GYPPASPSNL SCL MHLTTSNLV CQWE PGPE THL PTSFI LKSF RSRAD CQYQGDTI PDCVA m gest  
 GCKSLQPP-----THLLOC r gest (frag)  
  
 KDGQS HCCI PRKHL LLYQNMGTWWQAENALGTS MSPQL CL DP MDVVVKLEPPMLRTMDPSP I gest  
 KKRN NCSI PRKNL LLYQYNAIWWQAENMLGSS ESPKL CL DP MDVVVKLEPPMLQALDI GP m gest  
 r gest (frag)  
  
 EAAPPQAGCLQLCWE PWQPGHLI NOKCEL RHKP QRGEASWAL VGPLPLEALQYELCGLLP I gest  
 DVVSHQPGCLWLSWKWPSEYMEQECELRYQPQLKGANWTLVFHL PSSKDOFELCGLHQ m gest  
 r gest (frag)  
  
 ATAYTLCI RCI RWL PGHWSDWSPLSLEI RTTERAPTVRL DTWWRQRQLDP-- RTVQLFWK I gest  
 APVYTLCMRCI RSSLPGHWSDWSPLQQLRPTWKAPTRLD TWCOKKQLDPGT VSVQLFWK m gest  
 r gest (frag)  
  
 PVPLEEDSGRI QGYVVWSWRPSGQA GAI I PLCNTTELSCTFHLPSEAQEVALVAYNSAGTS I gest  
 PTPLQEDSGQI QGYLLSWNSPDHQGQDI HLCNTTQLSCI FLLPSEAQNVTLVAYNKAGTS m gest  
 r gest (frag)  
  
 RPTPVVFSESRGPALTRLHANARDPHSLWWGWEPPNPWPGYVI ENGLGPSPASNSNKTW I gest  
 SPTTVVFLNEGPAVTGLHANQDLNTIWWDWEAPSLLPGYLI EWEISSPSYNNSYKSW m gest  
 r gest (frag)  
  
 RMEQNGRATGFLLKENIRPFOLYETIUTPLYQDTNGPSQHVYAYSQENAPSHAPEHLKH I gest  
 MI EPNGNI TGI LKDNINPFOLYRITVAPLYPGIVGPPVNVTTFAGERAPPHPAHLKH m gest  
 r gest (frag)  
  
 I GKTWAQLEWPEPPELGKSPPLTHYTIFWTNAQNQSFSAI LNASSRGFVHLGLEPASLYH I gest  
 VGTTWAQLEWPEAPRLGMIPLTHYTIFWADAGDHFSVTLNISLHDVLUHLGLEPASLYH m gest  
 r gest (frag)  
  
 I HLMAASQAGATNSTVLTLMILTPEGSELHI I LGLFGLLLLLTCLCGTAWLCCKSPNRKNP I gest  
 VYLMASTRAGSTNSTGLTLRTLDP--SDLNI FLGIL-CLVLLSTCVVTLWLCCKRRGKTS m gest  
 r gest (frag)  
  
 LWPSPVPPDAHSSLGSWWPTI MEEDAFQPLGLG--TPPI TKLTVLEEDEKKPVPWESHNS I gest  
 FWSDVPPDAHSSLSSWLPTI MTEETFOLPSFWDSSVPSITKI TELEED-KKP THWDSE-S m gest  
 r gest (frag)  
  
 SETCGLPTLVQTYVLOGDPRAVSTQDQSQSGTS DQVLYGQLLGSP TSPGPGHYL RCDSTQ I gest  
 SGNGSLPALVQAYVLOGDPREISNQSOFFSRTG DQVLYGQVL ESP TSPGVMOYI RSDSTQ m gest  
 r gest (frag)  
  
 PLLAGLTPSPKSYENLWFQASPLGTLVTPAPSQEDDCVFGPLNFP LLQGI RVHGMEALG I gest  
 PLLGGPTPSPKSYENIWFHSRPQETFVPOPQPNQEDDCVFGPPFDFFPLFOGLQVHGVEEQG m gest  
 r gest (frag)  
  
 SF I gest  
 GF m gest  
 r gest (frag)

**Figure 11**

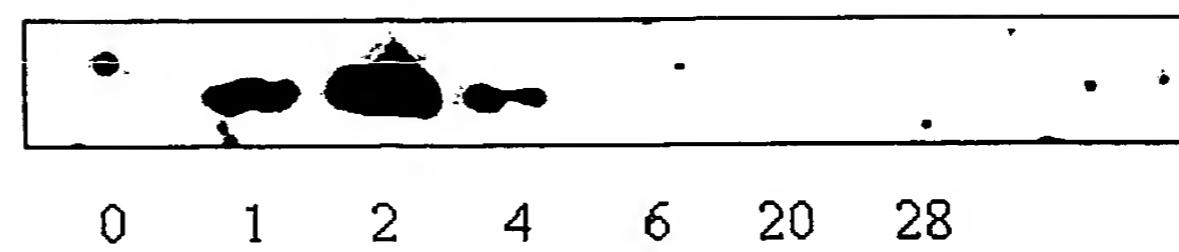


**Figure 12**

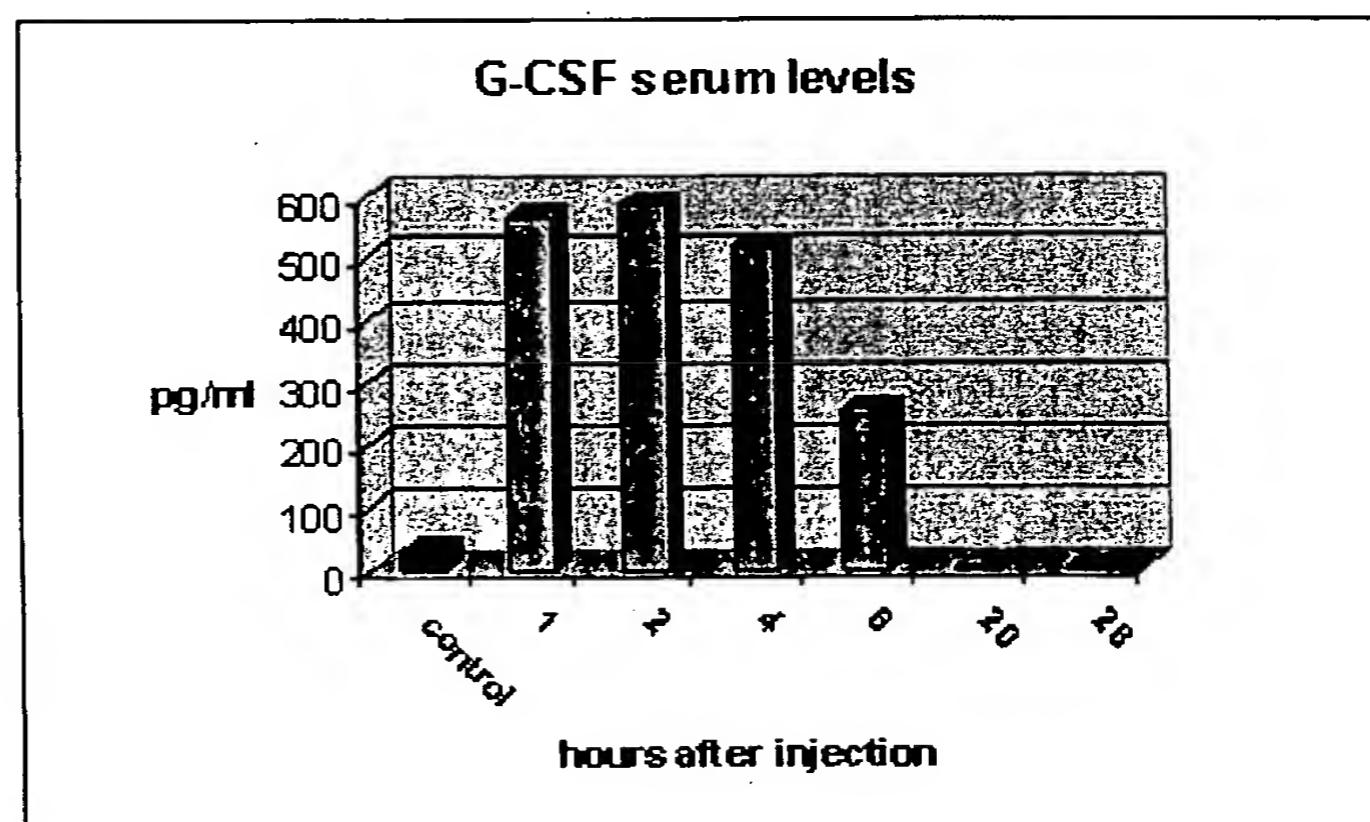


**Figure 13**

Biotinylated G-CSF detected on blot  
via Streptavidin-HRP

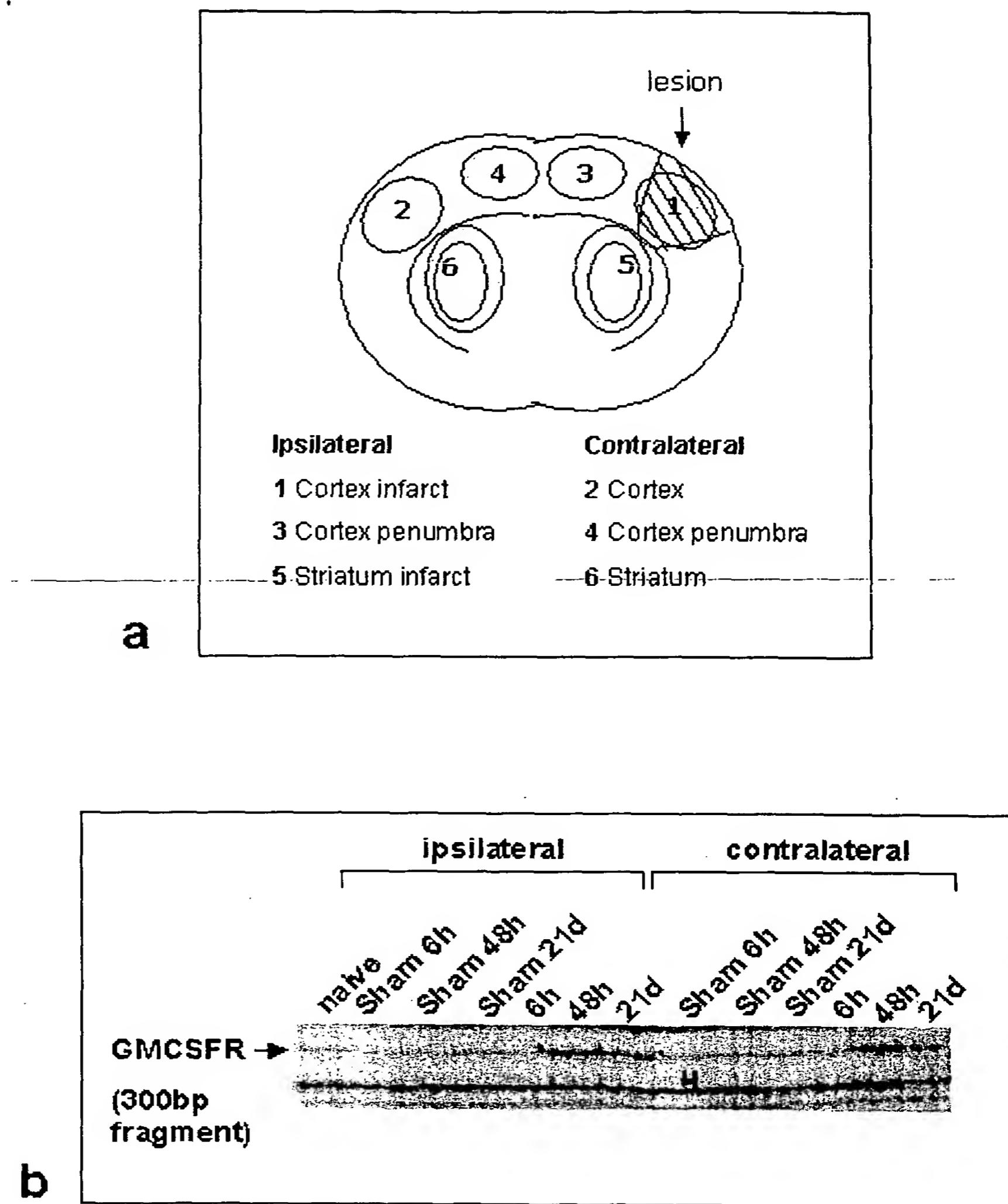


A hours after injection

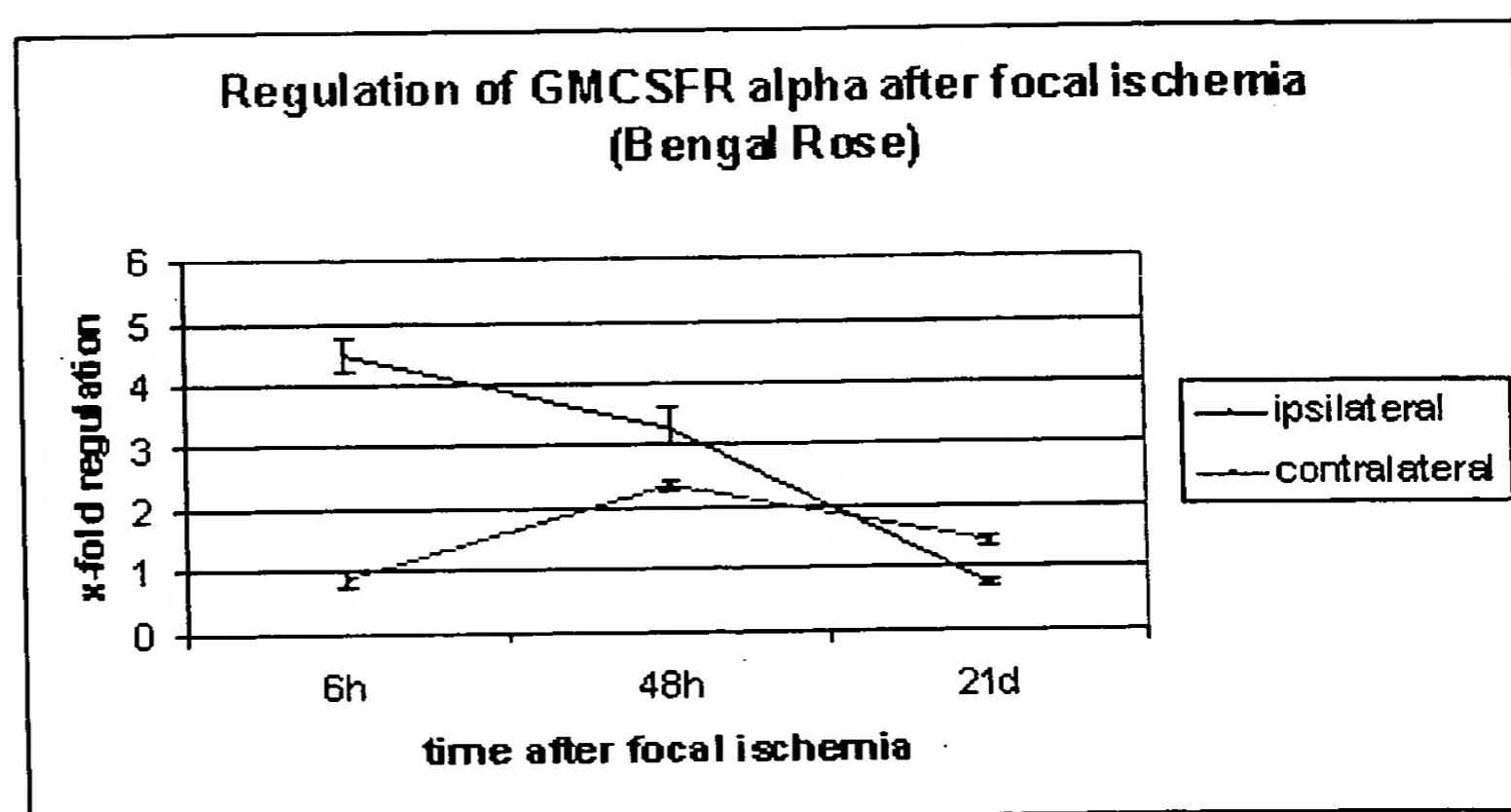


B

**Figure 14**



**Figure 15**



**Figure 16**

10	20	30	40
M L L L V T - - S L L I C E L P H P A F L L I P E K J D L R T V			hum gncsfir2
M T S S H A M N I T P L A Q - L A L L F S T L L P G T Q A L L A P T T P - -			mouse csf 2
- - - - - M S I I P L P Q L I A L L I C G L A A A T Q G P T D P S T P P N L			rat gncsfir
50	60	70	80
A P A S S L N V R F D S R T M H L S W D T Q E E T - - - T F S K C F L T D K X N			hum gncsfir2
D A G S A L H L T F D P W T R T L T W A T D T A A G N V T V T S C T V T S R E A			mouse csf 2
G L A H F H N L T F D P G T W T L S W A T G G H D G - - A V M S C T V I D Q E A			rat gncsfir
90	100	110	120
R U V E P R L S M H E C S T E R - E I C L H E G V T F E V H V E T S Q R G F Q			hum gncsfir2
G I H R - R V S P F G C R W F R R M M A L H H G V T L D V H G T V G G A A A H			mouse csf 2
G I R R - R V R S R G C B T R F Q - P M E L H R G V D L E V A G D K G H A Q V H			rat gncsfir
130	140	150	160
Q K L L Y P H S G R E G T A A Q N F S C F I Y H A D L M N C T W A R G P T A P R			hum gncsfir2
W R L S T V H E J A A G S G A E H L T C E I R A A R E L S C A W R E G P A A P A			mouse csf 2
Q T L R T E H E G A P G S G A E H L T C E I L A A H P L C T Y W A V G P A A P D			rat gncsfir
170	180	190	200
D V Q Y F L Y I B E S K R R R E I R C P Y Y I Q D S G T H V G C H L D M L S G L			hum gncsfir2
D V R Y S L R V L H S T G H D V A R T M A D P G D - D V I T Q C I A N D L S L L			mouse csf 2
D I R Y S L R V L H A T G H E V A S T S A A P L - - T P P T R T Q A D D L T H L			rat gncsfir
210	220	230	240
T J R N Y F L U B G T S R E I G I Q F F D S L L D T K K I E R F H P P S M V T V			hum gncsfir2
G S E A Y L U V T G R S G A G P V R F L D D V U V A T K A L E R L G P P R D V T A			mouse csf 2
P R L A Y I V V T G Q S R T G L V R F L D A V V N T K G I E R L G P P D N V S A			rat gncsfir
250	260	270	280
R C M T T H C L V R W K Q P R T Y Q K I S Y L D F Q Y Q L D V H R K M T Q P G T			hum gncsfir2
S C M S S H C T V S W A P P S T W A S T A R D F Q - - T E V Q W Q J A E P G S			mouse csf 2
S C M F S H C T I T W A P P P T W A P M T E Q D F R - - F E I E W X K A E P S S			rat gncsfir
290	300	310	320
E N L L I N V S G D L E M R Y M F P S S E P R A K H S V K I P R A A D V R I L N W			hum gncsfir2
T P R K V L V V - - E E T R L A F P S P A P H G G H K V K V R A G D T R M K H W			mouse csf 2
I A Q K V V I A G R E D M A F A P P S P A P R G R L W V R V R A G D T R S D R W			rat gncsfir
330	340	350	360
S S W S E A I E F G S D D G N L G S V Y I Y V L L I V G T L V C G I V L G F L F			hum gncsfir2
G E W S P A H P L E A E D T R V P G A L L Y A V T A C A V L L C A L A L G V T C			mouse csf 2
S D W S P A L E L G S E A T T P P R A L V L A A S S C A A L L C A L A L G A A C			rat gncsfir
370	380	390	400
K R F L R I Q R L F P P U P Q I K D K L N D N H E V E D E I I G E E F T P E G			hum gncsfir2
R R F E V T R R L F P P I P G I R D K V S D D V R V M P E T L R K D L L Q P			mouse csf 2
R R L A L S R B L L P P I P G I R D R V S D D E R V M S E T L R K D L L R P .			rat gncsfir
410			
K G Y R E E V L T V K E I T .			hum gncsfir2
			mouse csf 2
			rat gncsfir

**Figure 17**

10	20	30	40
MWLQNLFLGIVVYSL	APTRESPPPUTRPW	KHVDAIK	EAL
MWLQNLFLGIVVYSL	APTRESPPPUTRPW	KHVDAIK	EAL
MWLQNLFLGIVVYSL	APTRESPPPUTRPW	KHVDAIK	EAL

50	60	70	80
SLLNDMRALENEKNE	DVDIISHEF	SIQRPTC	VQTTRLKLYK
NLLDDDMPTLNR	-EVEVVSHEF	SFKXLT	EVQTRBLKIF
RLLNL	SRDTAAEMNET	EVISSEMFDLQ	EPTCLQTRBLELYK

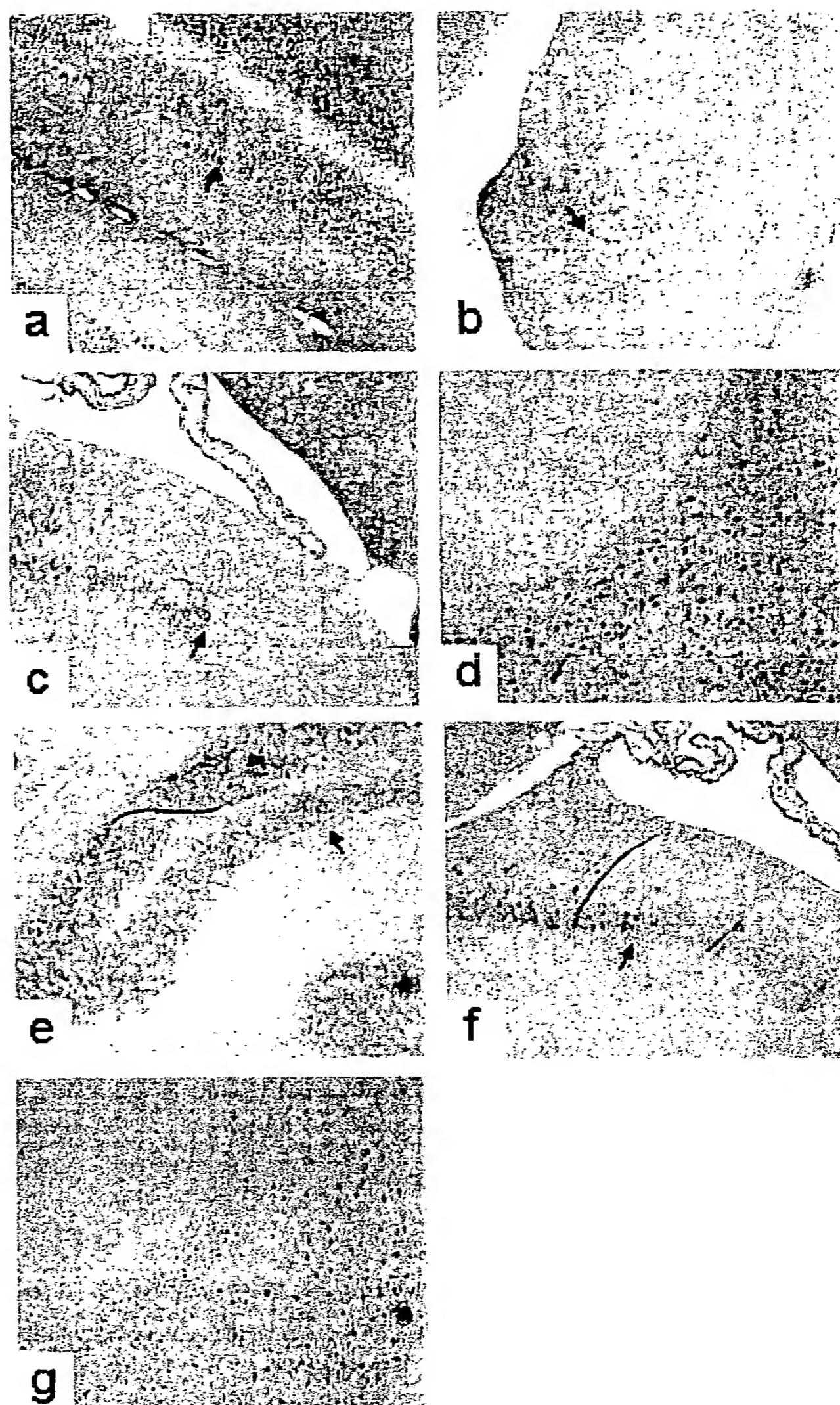
  

90	100	110	120
QGLRGMLTXLNGALT	MIAASHYQTN	CPPTPETD	CEIEVTTF
QGLRGMLFTKLKGALH	MNTASYYQTY	CPPTPETD	CEETQVTTY
QGLRGMLTKLKGPLTMM	AASHYKQH	CPPTPET	3CATQIIITF

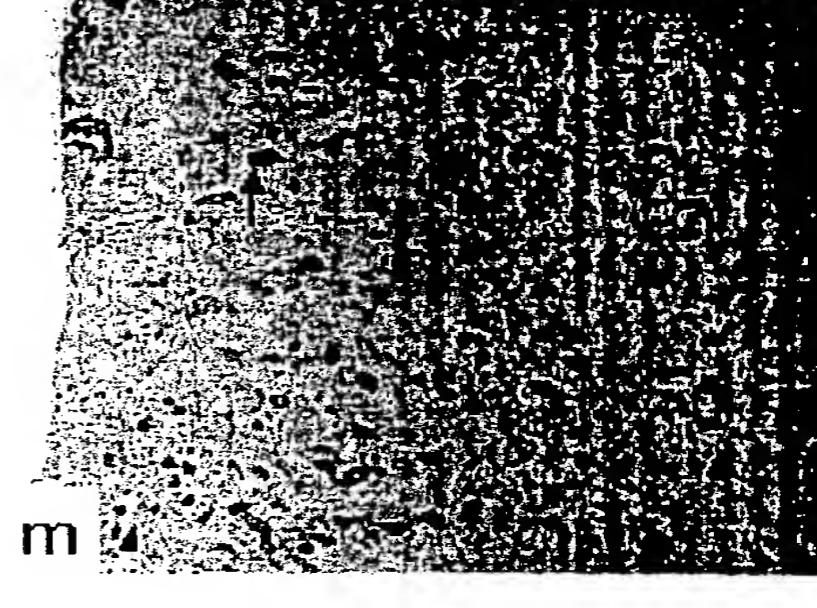
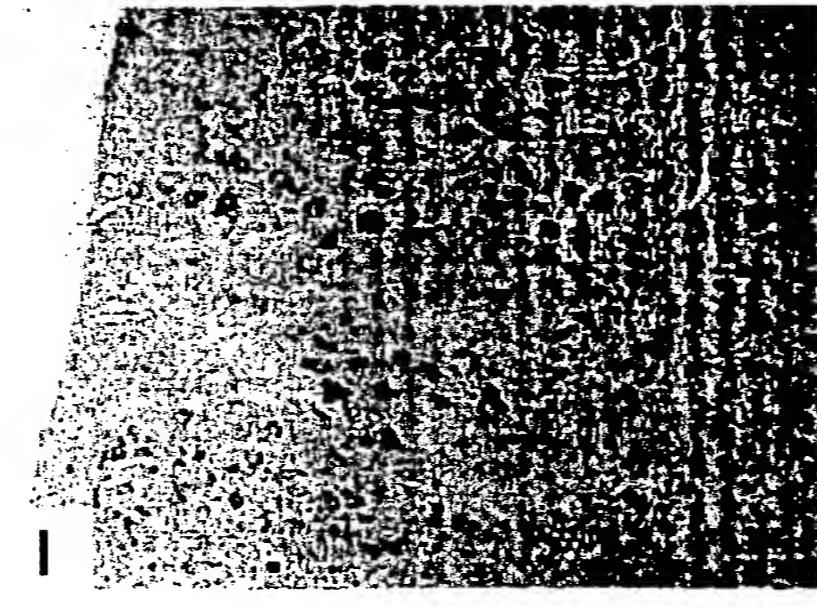
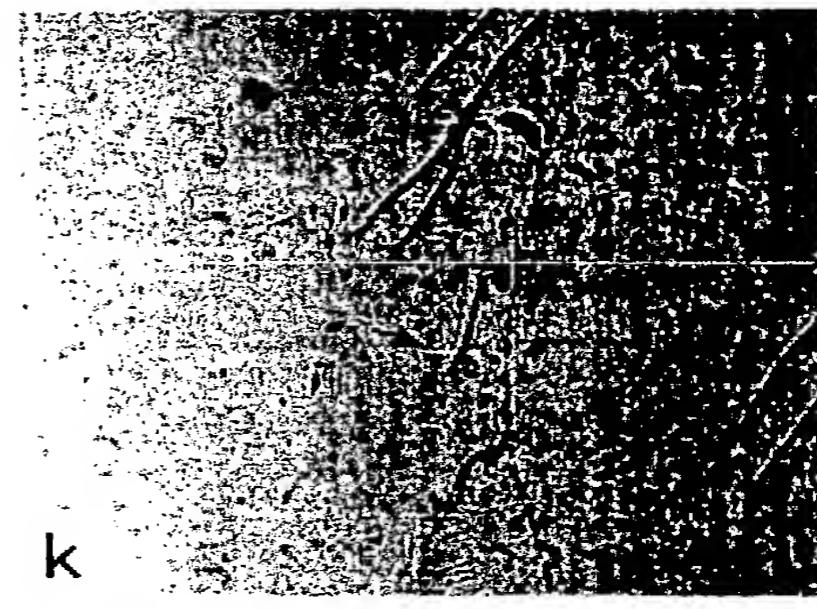
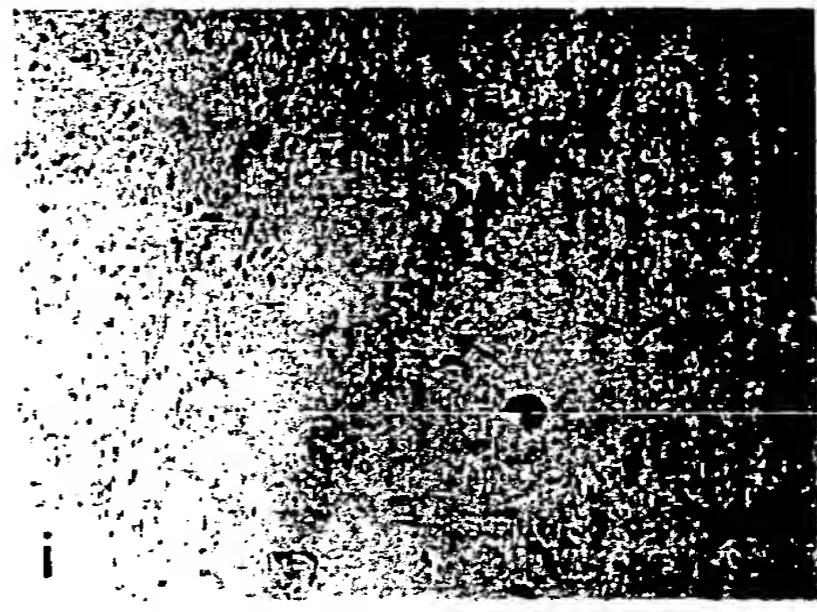
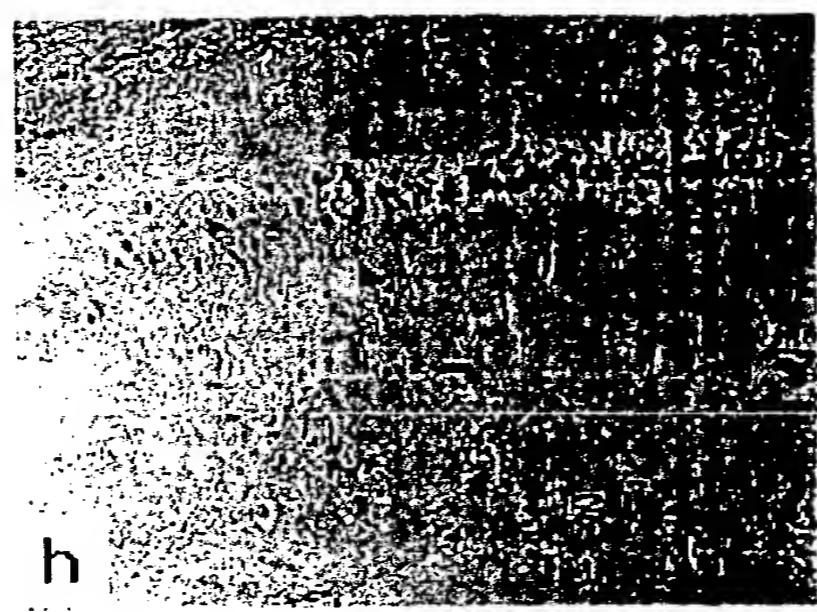
  

130	140		
EDFIKELKGFLFDIPFD	EWKPVQX		rat gmc:
ADFIIDSLKTF	TDIPFEIXXPQGQX		mouse gmc:
ESFKEENLKDF	LLVIPFDTWEPVQE		hum gmc:

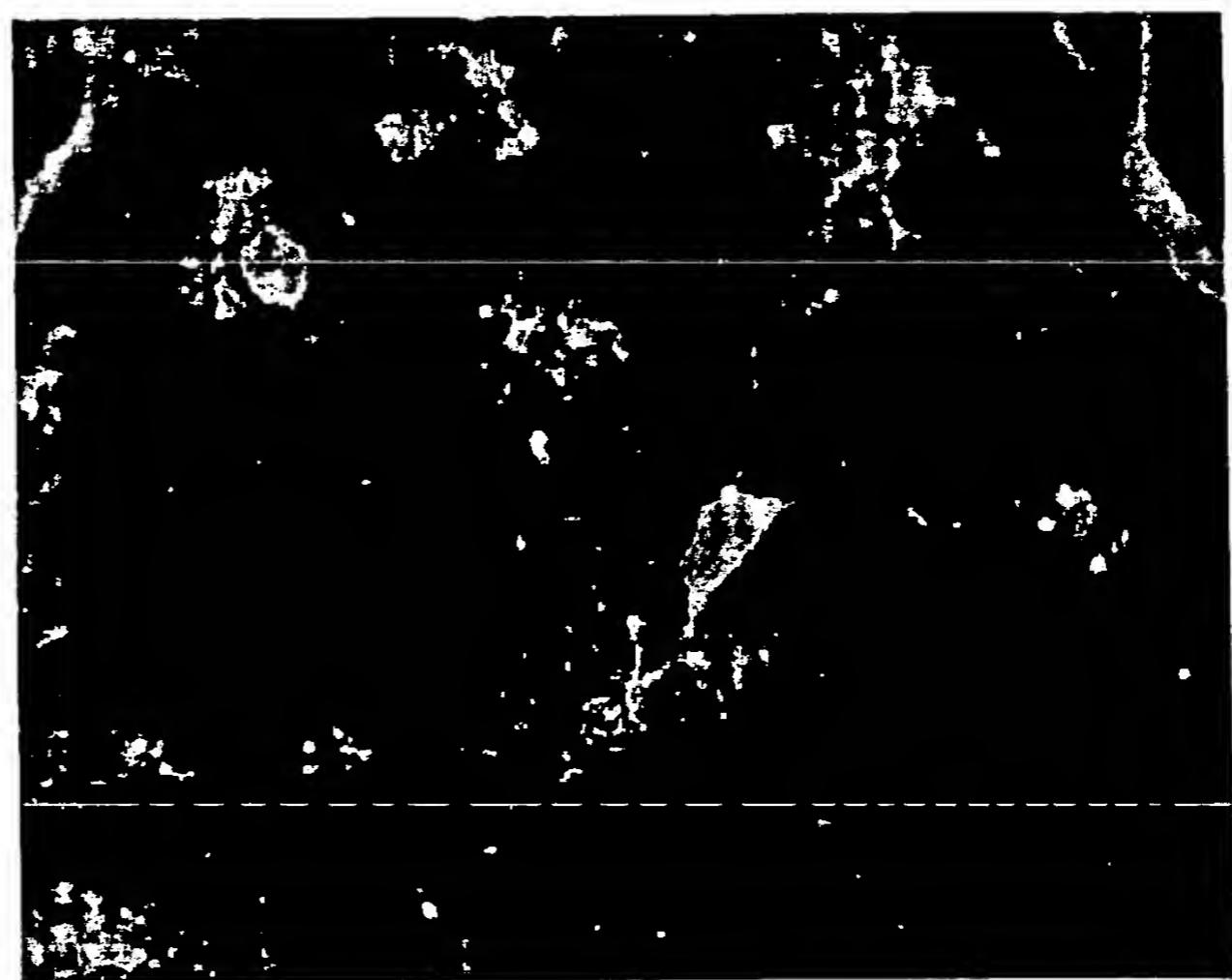
**Figure 18**



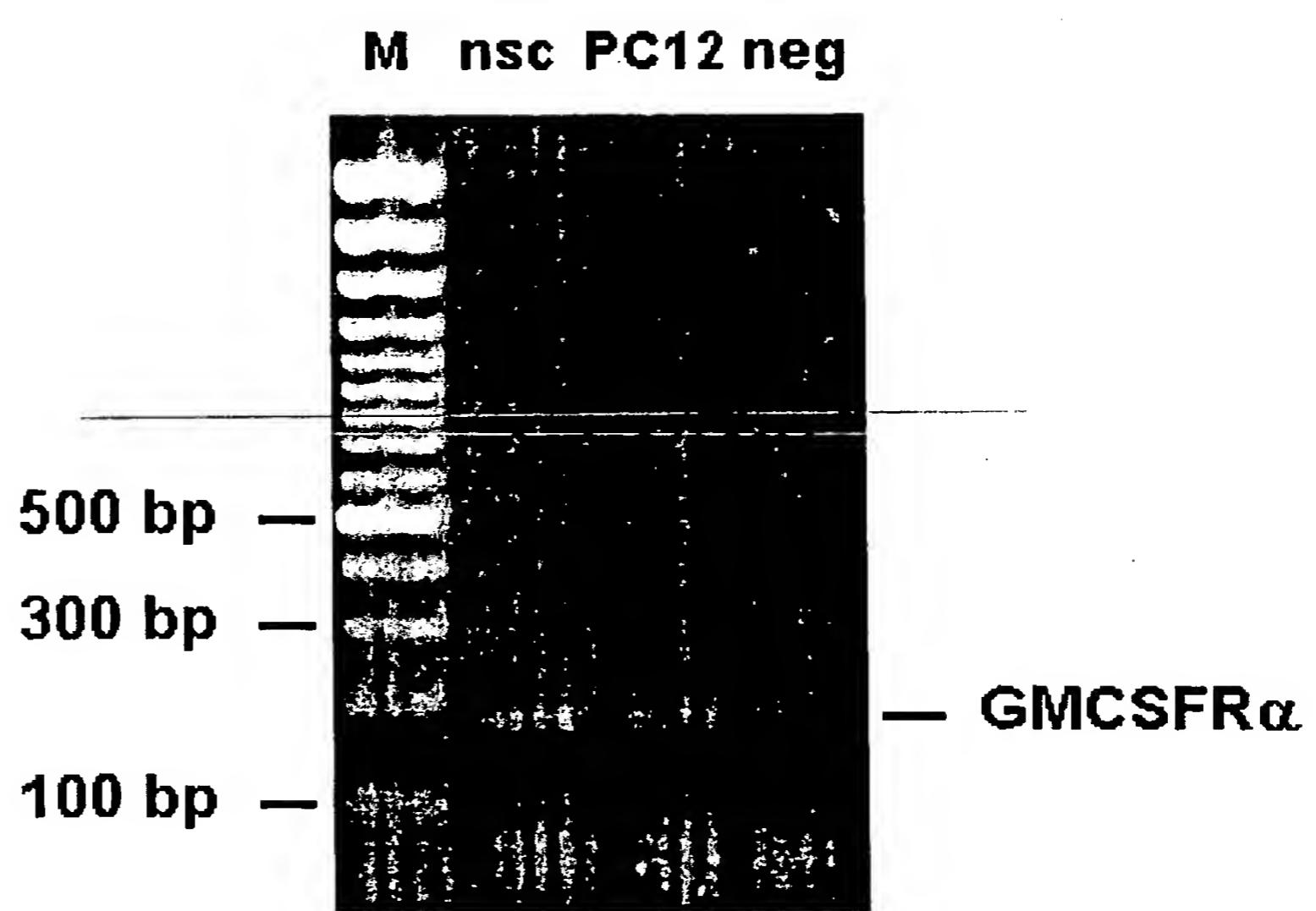
**Figure 19, part I**



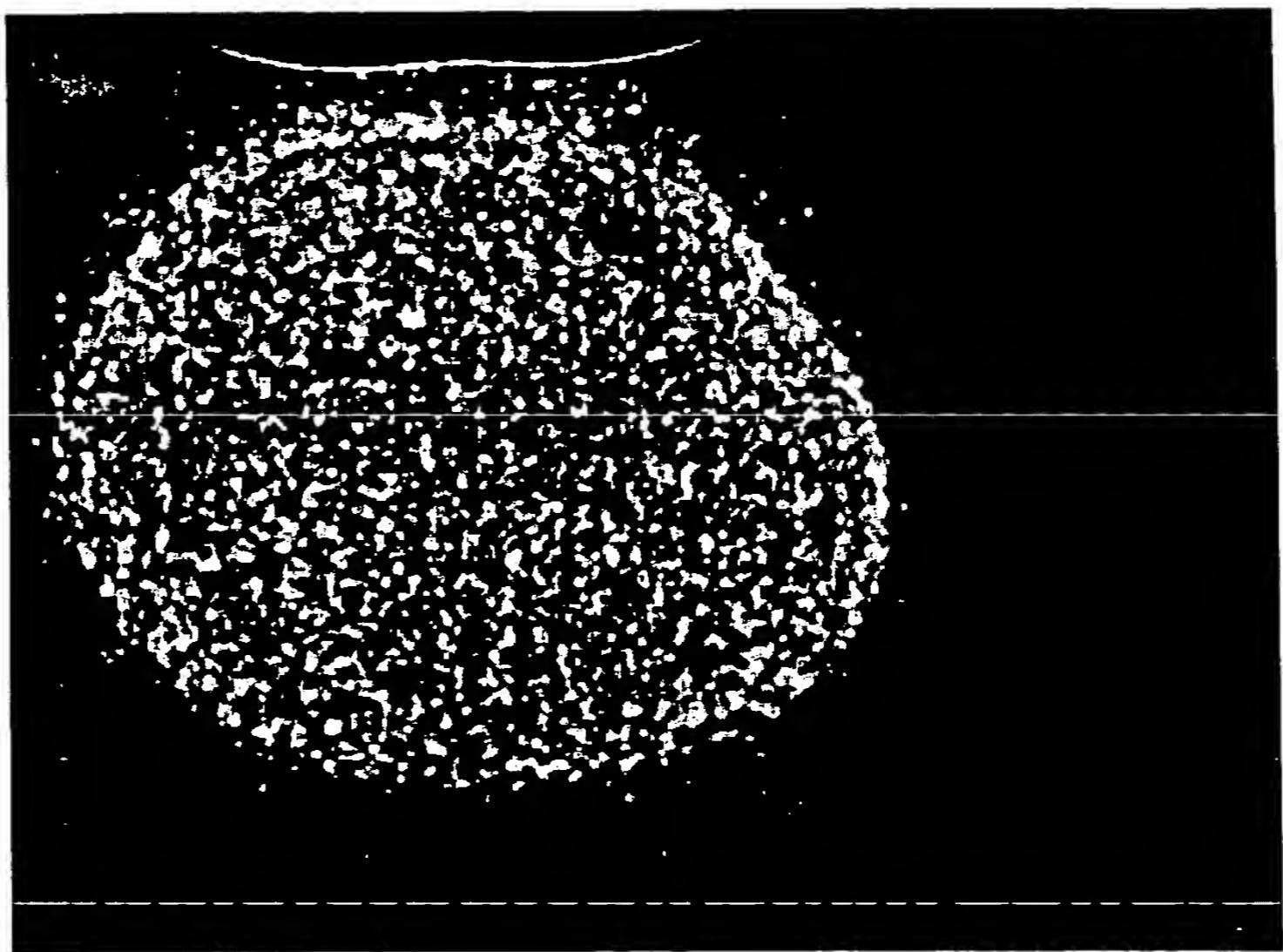
**Figure 19, part II**



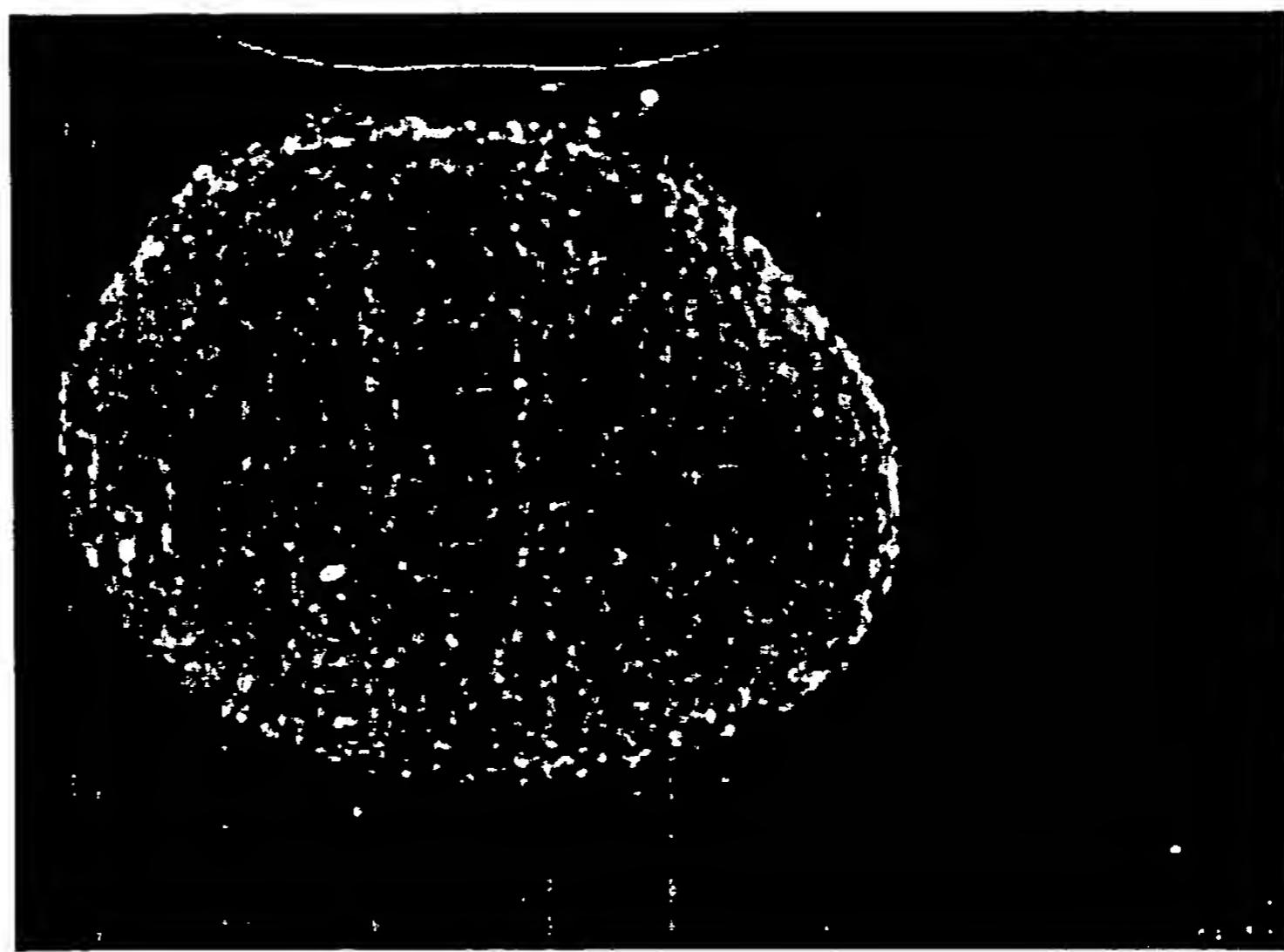
**Figure 20**



**Figure 21**

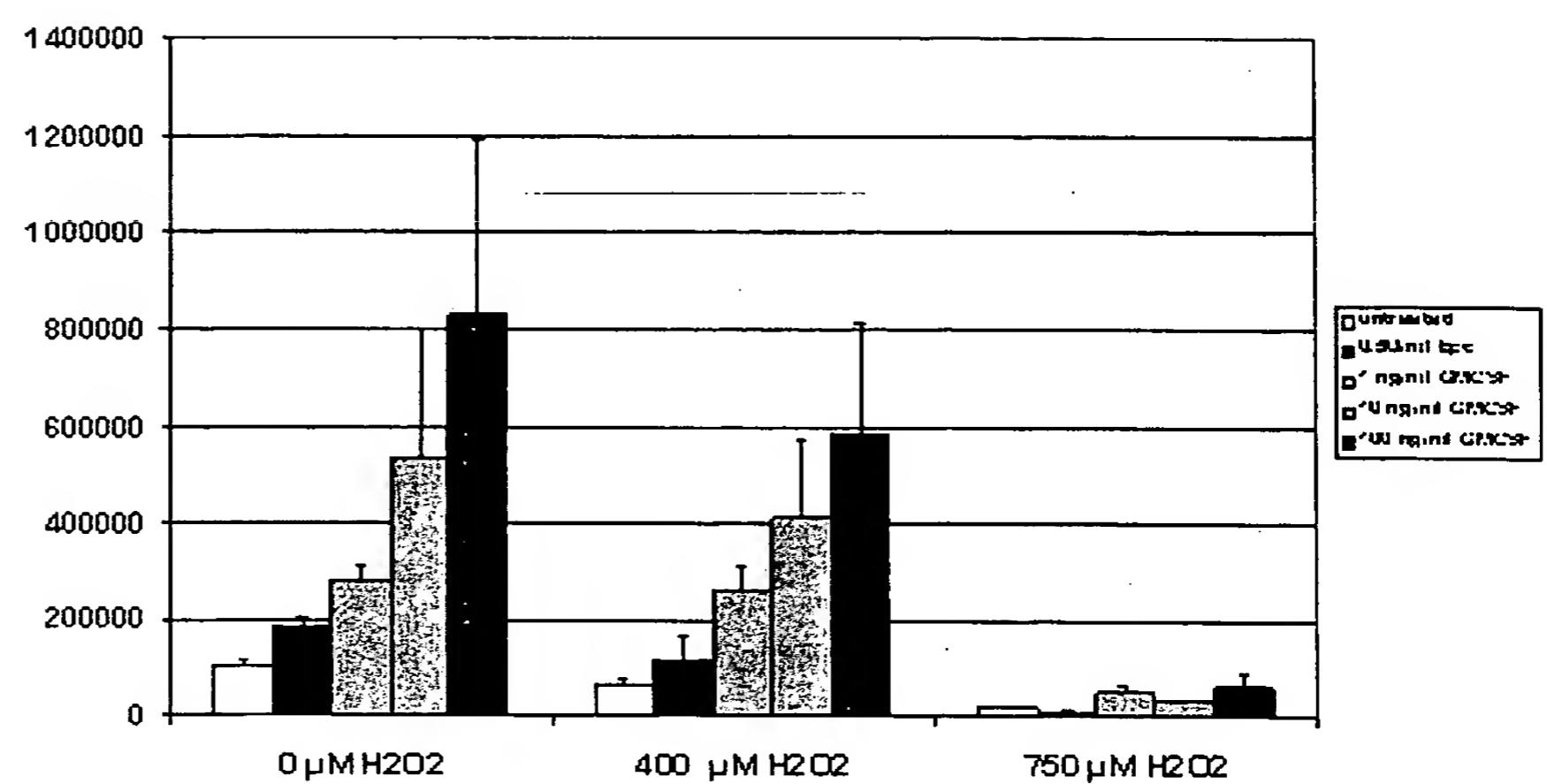


A



B

**Figure 22**



**Figure 23**